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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/932,042	08/17/2001	John R. Walton	1353-01	4497	
7590 11/25/2003			EXAM	EXAMINER	
Felicity E. Gsroth WOODCOCK WASHBURN LLP One Liberty Place - 46th Floor Philadelphia, PA 19103			BARRY, CHESTER T		
			ART UNIT	PAPER NUMBER	
			1724		
			DATE MAILED: 13/25/2003		

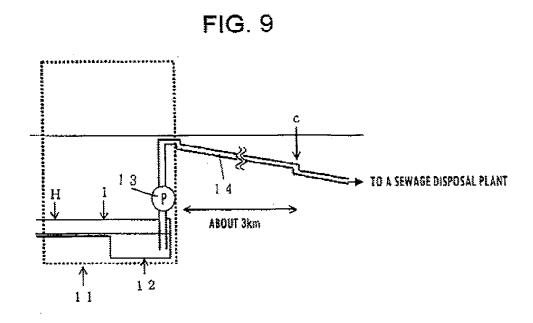
Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/932,042	WALTON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chester T. Barry	1724				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire StX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 17 Se	eptember 2003.					
2a)⊠ This action is FINAL . 2b)□ This a	action is non-final.					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) is/are pending in the application.						
4a) Of the above claim(s) is/are withdray 5) □ Claim(s) (4, 7, 1) is/are allowed. 6) □ Claim(s) (-4, 7, 1) is/are rejected. 7) □ Claim(s) (5) is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 17 August 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the since a specific reference was included in the first 37 CFR 1.78. a) The translation of the foreign language pro 14) Acknowledgment is made of a claim for domestic reference was included in the first sentence of the second	s have been received. s have been received in Application of the certified copies not received priority under 35 U.S.C. § 1190 at sentence of the specification of the certified copies not received priority under 35 U.S.C. § 1200 at sentence of the specification of the copies in the copies not received the specification of the specification of the specification of the specification application has been received the specification of the specification application has been received the specification of the specification application has been received the specification of the specification application has been received the specification of the specification of the specification application has been received the specification of the specification application has been received the specification of the specification application has been received the specification application has been received the specification application has been received the specification application application has been received the specification application app	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. eived. and/or 121 since a specific				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🗍 Interview Summary	(PTO-413) Paper No(s)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	Patent Application (PTO-152)				

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Claims 1 – 4, 11 are rejected under 35 USC Sec. 102(e) as anticipated by Hamaguchi. USP 6495096 to Hamaguchi describes a method for reducing evolution of hydrogen sulfide vapors within a sanitary sewer system. The disclosed method includes adding an iron salt, e.g., ferric chloride or ferrous chloride (col 4 lines 34, 36), to a wastewater stream in a sanitary sewer system upstream of hydrogen sulfide volatilization, e.g., at point H in Fig. 9 below. The iron salt dissociates in water, so free iron ions are inherently generated in the process. Such ions react with hydrogen sulfide to form Fe(II) sulfide. Hamaguchi also describes the deliberate addition of hydrogen peroxide to the wastewater stream downstream of the point at which the iron salt was added, e.g., at point I. The resulting chemical reaction between Fe(II) sulfide and hydrogen peroxide regenerates free iron ions. Insofar as at least one point along the "comparative Example 11" curve of Fig. 11 appears to be less than 10 ppm, and the peroxide concentration was 10 ppm (10 mg/L, column 17), the claim 11 limitation appears to have been met.

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Hamaguchi 's Example 37 (col 17):

Sewage in a pit 12 of a pumping station 11 was transferred to a sewage disposal plant through sewer pipe 14 by a transfer pump 13

In the above process for treating sewage, a 37% solution of iron(III) chloride H was added into an inlet of a grit chamber of a pumping station 11 in such an amount that the concentration was 39 mg/liter (5 mg/liter as the iron atom) in the sewage, and a mixed solution I containing hydrogen peroxide and nitric acid was continuously added into an outlet of the grit chamber in such an amount that the concentration of hydrogen peroxide was 10 mg/liter as 100% hydrogen peroxide and the concentration of the nitrate ion was 7 mg/liter in the sewage.

Claim 5 is objected to as being dependent on a rejected base claim, but would be allowed if presented in independent form.

Claims 9, 14 are rejected under 35 USC Sec. 103(a) as obvious over Hamaguchi.

Hamaguchi describes a downstream "sewage disposal plant." Conventional sewage disposal plants typically oxidize sewage using oxidants, such as air, oxygen, ozone, or hydrogen peroxide. It would have been obvious to have fed the sewage from point "c"

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in Fig 9 to such a conventional sewage disposal plant, rather to an ineffective sewage treatment plant that does not employ any oxidants.

Claims 15-16 are rejected under 35 USC Sec. 103(a) as obvious over Hamaguchi. It would have been obvious to have used stoichiometric amounts of chemical reactants: Less is too little to consume all the sulfide while an excess is – by definition - excessive.

Claim 17 is rejected under 35 USC 102(e) over USP 6245553 to Keyser. See col 4 lines 30 – 42. Use of an oxidant other than air or oxygen is suggested at col 4 line 59.

Claim 18 is rejected under 35 USC Sec. 103(a) as obvious over Keyser, as applied to claim 17 above, and Hamaguchi. Keyser is directed to hydrogen sulfide odor control of wastewater. Keyser suggests use of "other oxidants," col 4 line 59, but does not specifically suggest hydrogen peroxide. It would have been obvious to have substituted hydrogen peroxide for air or oxygen because Hamaguchi points out the use of hydrogen peroxide in controlling hydrogen sulfide odors in wastewater.

Claims 6 – 7, 19, 20 are allowed.

Mullenix shows an alternative approach to controlling hydrogen sulfide odors in sewers.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

CHESTERT. BARRY PRIMARY EXAMINER 703. 306, 5921